LISTING OF CLAIMS

1(currently amended). A film comprising conducting polymer applied from a dispersion containing particles having a particle size of less than <u>about</u> 450 nm, wherein the conducting polymer comprises substituted or unsubstituted, uncharged or charged polymerized units of thieno[3,4-b]thiophene, and wherein a film drop cast from the dispersion has a conductivity from <u>about</u> [[10⁻¹]] <u>10⁻²</u> to 10⁻⁶ S/cm measured using the four point probe method.

2(currently amended). The film of claim 1 wherein said particle size is less than <u>about</u> 200 nm.

3(cancelled).

4(currently amended). The film of claim 1 wherein said film has a conductivity of from about 10⁻² to 10⁻⁵ S/cm.

5(canclled).

6(currently amended). The film of claim 2 wherein said film has a conductivity of from about 10⁻² to 10⁻⁵ S/cm.

7(original). The film of claim 1 wherein the conducting polymer comprises substituted or unsubstituted, uncharged or charged polymerized units of

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where R is hydrogen, substituted or unsubstituted (C_1 - C_{18})-alkyl, preferably (C_1 - C_{10})-alkyl, in particular (C_1 - C_6)-alkyl, for example, t-butyl, (C_3 - C_7)-cycloalkyl, (C_1 - C_{18})-alkyloxy, preferably (C_1 - C_{10})-alkyloxy, or (C_2 - C_{18})-alkyloxy ester, phenyl and substituted phenyl, SF₅.

8(currently amended). A dispersion comprising <u>water</u>, at least one member selected from the group consisting of polymeric sulfonic acids and polystyrene sulfonic acids, and at least one conducting polymer containing particles having a particle size of less than about [[450]] 200 nm, wherein the conducting polymer comprises substituted or unsubstituted, uncharged or charged polymerized units of a polythiophene thiono[3,4-b]thiophene, and wherein a film drop cast from the dispersion has a conductivity from about [[10⁻¹]] 10⁻² to 10⁻⁶ S/cm when measured using the four point probe method.

9(currently amended). The dispersion of claim 8 wherein said particle size is less than 200 nm member comprises polymeric sulfonic acids.

10(currently amended). The dispersion of claim 8 wherein said film has a conductivity of from 10⁻² to 10⁻⁶ S/cm member comprises polystyrene sulfonic acids.

11(original). The dispersion of claim 8 wherein said film has a conductivity of from 10⁻² to 10⁻⁵ S/cm.

12(currently amended). The dispersion of claim [[9]] 8 wherein said film has a conductivity of from 10⁻² to 10⁻⁶ S/cm has a rectification ratio of greater than about 75 when assembled into an optoelectronic device.

13(original). The dispersion of claim 9 wherein said film has a conductivity of from 10⁻² to 10⁻⁵ S/cm.

14(original). The dispersion of claim 8 wherein the conducting polymer comprises substituted or unsubstituted, uncharged or charged polymerized units of

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where R is hydrogen, substituted or unsubstituted (C_1 - C_{18})-alkyl, preferably (C_1 - C_{10})-alkyl, in particular (C_1 - C_6)-alkyl, for example, *t*-butyl, (C_3 - C_7)-cycloalkyl, (C_1 - C_{18})-alkyloxy, preferably (C_1 - C_{10})-alkyloxy, or (C_2 - C_{18})-alkyloxy ester, phenyl and substituted phenyl, SF₅.

15(currently amended). An optoeletronic device comprising a <u>substrate</u>, an anode a <u>cathode and a first</u> film <u>located between the anode and cathode that comprises</u> semprising conducting polymer applied from a dispersion containing particles having a particle size of less than 450 nm, wherein the conducting polymer comprises substituted or unsubstituted, uncharged or charged polymerized units of thieno[3,4-b]thiophene, and wherein [[a]] the first film drop cast from the dispersion has a conductivity from [[10⁻¹]] about 10⁻² to 10⁻⁶ S/cm measured using the four point probe method and wherein the device has a rectification ratio of greater than about 75; and a second polymeric film.

16(currently amended). The optoelectronic device of claim 15 wherein said device [[is]] comprises a member selected from the group consisting of a light emitting diode, a photovoltaic device, and a laser diode.

17(currently amended). The optoelectronic device of claim 15 wherein said <u>first</u> film [[is]] <u>comprises</u> a hole injection layer.

18(currently amended). The optoelectronic device of claim 15 wherein said <u>first</u> film [[is]] <u>comprises</u> a hole transport layer.

19(currently amended). The optoelectronic device of claim 15 wherein said <u>first</u> film [[is]] <u>comprises</u> a hole injection and hole transport layer.

20(currently amended). The optoelectronic device of claim 15 wherein said film has a conductivity of from 10⁻² to 10⁻⁸-S/cm the second film comprises a light emitting polymer that comprises at least one member selected from the group consisting of poly(phenylene vinylene)s and polyfluorenes.

21(currently amended). The optoelectronic device of claim [[15]] <u>20</u> wherein said film-has a conductivity of from 10⁻² to 10⁻⁵ S/cm. the second film comprises a poly(phenylene vinylene) and said poly(phenylene vinylene) comprises poly(2-methoxy, 5-(2'-ethyl-hexyloxy)-p-phenylene-vinylene).

22(new). The optoelectronic device of Claim 15 wherein said device comprises a light emitting diode and has a brightness at a current density of 100mA/cm2 of greater than about 830.

23(new). The optoelectronic device of Claim 15 wherein the device comprises a photovoltaic device, said first film comprises a hole transport layer, and said second film comprises at least one member selected from the group of semiconductive hole transporting layer and semiconductive electron transporting layer.